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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/577,675	04/28/2006	Sung-Jin Hong	PNK-0330	5134	
	7590 04/30/2009 TOR COLBURN, LLP			EXAMINER	
20 Church Stree 22nd Floor		NGUYEN, THANH NHAN P			
Hartford, CT 06103			ART UNIT	PAPER NUMBER	
				2871	
			NOTIFICATION DATE	DELIVERY MODE	
			04/30/2009	ELECTRONIC	

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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usptopatentmail@cantorcolburn.com

	Application No.	Applicant(s)
	10/577,675	HONG ET AL.
Office Action Summary	Examiner	Art Unit
	THANH-NHAN P. NGUYEN	2871
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutorion. Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin 1 will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>06 c</u> This action is <b>FINAL</b> . 2b) ☑ This action is <b>FINAL</b> . 2b) ☑ This action is application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4)  Claim(s) 1-7 is/are pending in the application.  4a) Of the above claim(s) is/are withdra  5)  Claim(s) is/are allowed.  6)  Claim(s) is/are rejected.  7)  Claim(s) 1-7 is/are objected to.  8)  Claim(s) are subject to restriction and/o  Application Papers  9)  The specification is objected to by the Examin	awn from consideration. or election requirement. er.	by the Everniner
10)⊠ The drawing(s) filed on <u>28 April 2006</u> is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)□ The oath or declaration is objected to by the E	e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob-	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* See the attached detailed Office action for a list	nts have been received. nts have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate

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**DETAILED ACTION** 

Claim Objections

Claims 1-7 are objected to because in claim 1, lines 11-12, limitation "a data

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electrode line formed on the second insulating substrate and intersecting the first and

second gate lines" is unclear. Since the first and second gate lines formed on the first

insulating substrate and the data electrode line formed on the second insulating

substrate, they cannot really intersect each other (to define a pixel area).

Therefore, in light of the disclosure and for the purpose of examination, that

limitation will be interpreted as, "a data electrode line formed on the second insulating

substrate and having two-dimensionally intersecting the first and second gate lines to

define a pixel area."

Appropriate correction is required.

Allowable Subject Matter

Claims 1-7 would be allowable if rewritten or amended to overcome the

objection, set forth in this Office action.

Reason for allowance: There is no prior art of record that teaches or

suggests a liquid crystal display comprising a relationship of various elements as

claimed with the specific allowable subject matter cited in the following claims:

Claim 1:

first and second gate lines formed on the first insulating substrate

a pixel electrode formed on the first insulating substrate

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• a first MIM diode formed on the first insulating substrate connecting the first gate

line and the pixel electrode

• a second MIM diode formed on the first insulating substrate connecting the

second gate line and the pixel electrode

a data electrode line formed on the second insulating substrate and having two-

dimensionally intersecting the first and second gate lines to define a pixel area

wherein the data electrode line includes protrusions protruding toward right and

left sides by turns to overlap a predetermined number of pixel electrodes of the

right and left sides by turns

Claims 2-7 are allowed since they depend on the allowed claim 1.

Response to Arguments

Applicant's arguments with respect to claims 1-7 have been considered but are

moot in view of the new ground(s) of objection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

US 6222596.

US 6225968.

**Contact Information** 

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Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to (Nancy) Thanh-Nhan P. Nguyen whose telephone

number is 571-272-1673. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

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-- April 26, 2009 TN

/David Nelms/

Supervisory Patent Examiner, Art Unit 2871